Ryan Nagengast

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EDUCATION

The Pennsylvania State University — University Park, PA
Honors Bachelor of Science in Computer Science — *May 2025*

EXPERIENCE

Lead Instructor — Nov 2020 - Dec 2021
Mathnasium — *Glen Mills, PA*

- Developed and oversaw the completion of individualized mathematics learning plans for students K-12
- Led other instructors in center operations and trained new hires in proper methods and practices
- Instructed students in various mathematics topics from counting to advanced calculus
- Responsible for tracking student progress and administering proper benchmark assessments

PROJECTS

Poker Hand Equity Calculator

- Created a user interface to take in ranges of poker hands using Python
- Optimized an efficient algorithm to calculate hand equity over millions of combinations utilizing object-oriented techniques

Discode

- Developed a Discord bot using the Java-Discord-API that aggregates competitive programming resources from Codeforces
- Called the Codeforces API and organized the data using the json.simple library
- Efficiently stored and periodically refreshed user data, decreasing response time by several seconds

Graphing Calculator

- Designed a graphical user interface to take in user input equations using Java Swing
- Efficiently calculated points to graph over a varying window depending on the type of equation

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript
Developer Tools: Git, VS Code, IntelliJ